

# Spring 2020 Awards

## Art and Art History Department

Faculty Sponsor: Rosemary Jesionowski

Students: James Glover, Emily Warren, and Courtney Chetister – Society for Photographic Education

Faculty Sponsor: Jon McMillan

Students: Six Students – The National Council on Education for the Ceramic Arts

Faculty Sponsor: Marjorie Och

Student: Sarai David – A Tale of Two Paintings: Leonardo da Vinci's "Virgin of the Rocks"

## Biological Sciences Department

Faculty Sponsor: Josephine Antwi

Student: Matthew Smith – Comparing pollinator communities between managed and unmanaged areas

Faculty Sponsor: Dianne Baker

Student: Chris Good – The effect of benzo[a]pyrene in zebrafish

Students: Rachel Summers and Bailey Johnson – Development of the stress axis in two teleost species

Faculty Sponsor: Lynn Lewis

Student: Fernando Cabezas – Remediation of Diesel spills using Fungi and Bacteria

Student: Ashley McAleese – Identification and Analysis of Enzymatic Activity of a Consortium of Petroleum Hydro-Carbon Degrading Bacteria

Faculty Sponsor: Deborah O'Dell

Students: Nicole Haynes, Meredith LeBel, and Laura O'Dea – Effects of Probiotics on Inflammatory Responses in Neuronal Tissue

Student: Tamara Natour – Aggregation of Alpha Synuclein and Tau Protein in Cell Cultures Containing APOE4 Gene in Response to Taxol and Estrogen Treatments

Faculty Sponsor: Parrish Waters

Students: Laura Leonard and Haley Lavach – The influence of two stressors on the physiology and behavior of laboratory mice

Faculty Sponsor: April Wynn

Student: Joseph Gray – Effect of *Trichoderma Harzianum* Inoculation on Salt Stress Tolerance of Two Pepper Cultivars

Student: Cayley McGuire – Differential uptake of pathogenic and nonpathogenic *Escherichia coli* in *Arabidopsis thaliana* roots a low nitrogen environment

### Chemistry Department

Faculty Sponsor: Janet Asper

Student: Rachel Gunraj – Identification of microplastics in waterfowl via IR spectroscopy

Faculty Sponsor: Leanna Giancarlo

Student: Emily Matuczinski -The effect of a potential glioblastoma treatment on normal cells

Student: Ashley Parkhurst – Effects of Magnetic Field Presence on the Coating of Bioconjugated Superparamagnetic Iron Oxide Nanoparticles

Faculty Sponsor: Randall Reif

Student: Marshall Walker -Regulation of Enzyme Activity

Students: Ashley Utz and Miranda Hiller – Reusability of affinity-coated microfluidic devices

### Classics, Philosophy, and Religion Department

Faculty Sponsor: Joe Romero

Student: Brooke Prevedel -How Taking the Day is Being Taken: The Evolution of “Carpe Diem” Literature

### Computer Science Department

Faculty Sponsor: Stephen Davies

Students: 26 Students –2020 Datafest

## Earth and Environmental Science Department

Faculty Sponsor: Tyler Frankel

Student: Thomas Bustamante – Assessing the presence and concentrations of micro plastics in the gizzards, intestines, and feces of VA waterfowl

Student: Catherine Crowell – The impacts of pH on Trace Contamination Leaching and Toxicity of Coal Ash in *Planorbella duryi*

Student: Mary Hoffman – Lethality and Behavioral Toxicity of Sulfoxaflor on *Daphnia magna* Student: Spencer Saunders – Impacts of Thiamethoxam on *Physa acuta*

Faculty Sponsor: Pam Grothe

Student: Cheyenne Palmo -Oxygen isotope variation in *Crassostrea Virginia* shell and from the Chesapeake Bay (and its tributaries): Applications to regional paleoclimate

Faculty Sponsor: Ben Kisila

Student: Lauren Chartier – Soil Reclamation: Biogeochemical Effects of Sand Mining

Faculty Sponsor: Melanie Szulczewski

Students: Emily Brooks and Kaitlyn McClung – Evaluation of Metals Contamination and Soil Properties at Former Mines in Poland

Student: Hannah Pullen – Environmental Study of Papermaking

## Economics Department

Faculty Sponsor: Amrita Dhar

Students: Brandon Williams and Robert West– Eastern Economic Association Annual Meetings: Issues in Political Economy Undergraduate Research Conference

Faculty Sponsor: Amrita Dhar and Don Lee

Students: 7 students– Economic Scholars Program at the Federal Reserve Bank of Dallas

## English, Linguistics, and Communications Department

Faculty Sponsor: Laura Bylenok

Students: Julia Manuel, Emma Yerly, and Kelly Donaghey – Rappahannock Review at the 2020 AWP Annual Conference and Bookfair

Faculty Sponsor: Elizabeth Johnson-Young and Emily Crosby

Students: 23 students – CDS Undergraduate Conference Travel to Virginia Association of Communication Arts & Sciences

Faculty Sponsor: Zach Whalen

Student: Katelyn Wolfgang – Educational, Digital Studies and the Graphic Novel

Students: Christina Montemorano, Alexander Rudenshiold, and Aleksandra Shrabnaya – NaNoGenMoCat: Documenting Computer-Generated Fiction

## Geography Department

Faculty Sponsor: Dawn Bowen

Student: Alex Chrvala – Participation in the World Geography Bowl Competition

Students: Brenna Creamer and Alissa Flores -Agroforestry for Nutrition in Alta Verapaz, Guatemala

Faculty Sponsor: Steve Hanna

Students: Kelsey Chavers, Kylie James, Chinnae Faustor, and Elizabeth Devine – Descendant Community Involvement in Presidential Plantation Museum Tours and Exhibits

## Historic Preservation Department

Faculty Sponsor: Lauren McMillan

Students: Frederick Altenberg, Lillian Salamone, Delaney Resweber, Claire Ross, Ethan Knick and Angus Long – Student Presentations at the Middle Atlantic Archaeology Conference

## History and American Studies Department

Faculty Sponsor: Krystyn Moon

Student: Anisha DeSilva – The Hindu Conspiracy: A Transnational Surveillance

Student: Christina Scoot – Senior Thesis on Japanese American Redress movement

## Music Department

Faculty Sponsor: Brooks Kuykendall

Student: Mary Dye – Laser Harp

## Physics Department

Faculty Sponsor: Laura Dickinson

Student: Rebecca Callaway – Laser Harp

## Political Science and International Affairs Department

Faculty Sponsor: Emile Lester

Student: Zach Handlin – Constitutional Education in Virginian High Schools

## Psychological Sciences Department

Faculty Sponsor: Mindy Erchull

Students: Madeleine McGann, Kathryn Amtsen, Rebekah Stone, and Kaylin Clinkenbeard – The effects of scientists' advocacy of perceived credibility

Faculty Sponsor: Dave Kolar

Students: Sam Taylor, Mathew Crawford, Jessica Whitney, and Kaitlan O'Keefe – How to Slay Your Dragon

Faculty Sponsor: Jennifer Mailloux

Student: Anna Higginbotham – Predicting Sexual Satisfaction in Women

Faculty Sponsor: Chris McBride

Students: 25 students – Attend the Virginia Academy of Academic Psychologists annual meeting with students

Faculty Sponsor: Holly Schiffrin

Students: Erin Whitesell, Nicole Boigegrain, Miranda Batte-Futrell, and Christine Cao – The Effects of Helicopter Parenting on the Self-determination and Prosocial Behaviors of Emerging Adults

## Theatre and Dance Department

Faculty Sponsor: Gregg

Student: Jacob Dodges – Directing BODY AWARENESS by Annie Baker in Studio 115

Student: Aaron Hoffman-Wilson – Directing CONSTELLATIONS by Nick Payne in Studio 115

Students: 16 students – Notions of Self, Community, and Transformation in Performance